|  | <br>Clai |  |
|--|----------|--|
|  |          |  |

Application No.

09/771,733

Examiner

Fritz Alphonse

Applicant(s)

OHIRA ET AL.

Art Unit

2133

| √ | Rejected |
|---|----------|
| П | Allowed  |

(Through numeral)
Cancelled

Restricted I Interference

Non-Elected

| A | Appeal   |
|---|----------|
| 0 | Objected |

|          |          |              |  |              |          |          |  | L        |              |          |          |          |          |          |          |          |          | L         |          |          |                 |          |   |              |            |  |                |                |  |  | —                |          |   |
|----------|----------|--------------|--|--------------|----------|----------|--|----------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|-----------------|----------|---|--------------|------------|--|----------------|----------------|--|--|------------------|----------|---|
| Cla      | aim      |              | Date   |              |          |          |  | Г        | Claim Date   |          |          |          |          |          |          |          |          |           | ſ        | Cla      | aim             | Date     |   |              |            |  |                |                |  |  |                  |          |   |
| Final    | Original | 9/6/05       |  |              |          |          |  |          |              |          | i i      | 5        | Original |          |          |          |          |           |          |          |                 |          |   | Final        | Original   |  |                |                |  |  |                  |          |   |
|          |          |              |  |              |          |          |  | _        | _            | _        |          | _        |          | _        | +        | _        | 4        | $\perp$   | 4        | 4        | $\dashv$        |          |   |              |            |  |                | 4              | _  |  | $\dashv$         | _        | L |
| 1        | 1        | <u> </u>     | H  | -            |          | $\vdash$ | $\vdash$                               | -        | -            | $\dashv$ | -        |          | 51       | +        | +        | +        | +        | +         | +        | $\dashv$ | +               | 4        |   |              | 101<br>102 |  | $\vdash$       |                | $\dashv$   | $\dashv$   | $\dashv$         | $\dashv$ | H |
| 9        | 3        | ⊦−           |  |              |          | -        | Н                                      |          | -            | -        | -        |          | 52<br>53 | -        |          | ╬        | +        | +         | $\dashv$ | $\dashv$ | +               | -        |   |              | 103        |  | $\vdash$       | $\dashv$       | -  | $\dashv$   | $\dashv$         | $\vdash$ | H |
| -        | -4-      | <u> </u>     |  |              |          |          |  | -        | -            | $\dashv$ | -        |          | 54       | +        | +        | +        | ╁        | +         | +        | $\dashv$ | +               | $\dashv$ |   |              | 103        | $\vdash$                               | Н              | $\dashv$       | $\dashv$   |  | $\vdash$         | $\vdash$ | H |
|          | 5        | ╁            | H  | $\dashv$     | _        |          | Н                                      | $\dashv$ | $\dashv$     | $\dashv$ | -        |          | 55       |          | ╫        | -+-      | +        | -+        | $\dashv$ | $\dashv$ | $\dashv$        | $\dashv$ |   |              | 105        |  | $\vdash$       | $\dashv$       | $\dashv$   | $\dashv$   | $\dashv$         | $\vdash$ | H |
|          | 6        | ┢╌           | -  | $\dashv$     | -        |          | $\vdash$                               | $\dashv$ | ᅱ            | $\dashv$ | $\vdash$ |          | 56       | +        | +        | +        | +        | +         | -+       | +        | $\dashv$        | -        |   |              | 106        | <del> </del>                           | Н              | $\dashv$       | $\dashv$   | $\dashv$   | $\vdash$         | $\vdash$ | H |
| 10       | 7        | ┢╾           | -  |              |          | -        | H                                      |          | -            | ┥        | $\vdash$ |          | 57       | +        | +        | +        | ╁        | +         | $\dashv$ | $\dashv$ | -+              | $\dashv$ |   |              | 107        | $\vdash$                               | Н              | ┪              | -  | $\dashv$   | <del>     </del> |          | H |
|          | 8        | <del> </del> | -  | -            |          | -        | Н                                      | $\dashv$ | $\dashv$     | $\dashv$ | -        |          | 58       | +        | +        | +        | ╅        | +         | $\dashv$ | $\dashv$ | $\dashv$        | $\dashv$ |   |              | 108        | $\vdash$                               | Н              | $\dashv$       | $\dashv$   | $\dashv$   | $\vdash$         |          | ۲ |
| 11       | 9        | ╁            | -  |              |          |          | Н                                      | $\dashv$ | $\dashv$     | $\dashv$ |          |          | 59       | +        | ╁        | ┰        | +        | $\dashv$  | ╅        | $\dashv$ | ╅               | ⊣        |   | -            | 109        |  | H              |                | $\dashv$   | $\exists$  | $\vdash$         |          | H |
| <u> </u> | 10       | ┿            |  |              | -        |          | Н                                      |          | $\dashv$     | $\dashv$ | $\vdash$ |          | 60       |          | +        | +        | +        | $\forall$ | $\dashv$ | +        | 十               | ᅥ        |   |              | 110        | $\vdash$                               | Н              | $\dashv$       | -  | $\dashv$   | $\Box$           |          | r |
| 3        | 11       | $\vdash$     | H  | $\vdash$     | -        |          | H                                      | $\dashv$ | $\dashv$     | $\neg$   | $\vdash$ |          | 61       |          | ╅        | +        | $^{+}$   | ┪         | -        | 7        | $\dashv$        | ⊣        |   |              | 111        |  | Н              |                | $\dashv$   | $\neg$   | $\sqcap$         |          | r |
|          | 12       | ╁            | H  | Н            | ├-       |          | Н                                      |          |              | -        | $\vdash$ |          | 62       | _        | +        | +        | +        | 7         | $\dashv$ | $\dashv$ | $\dashv$        | ヿ        |   |              | 112        | H                                      | Н              |                |  |  | П                |          | r |
| 19       | 13       | $\vdash$     | H  | Н            | $\vdash$ | $\vdash$ | $\vdash$                               | Н        |              | $\neg$   | -        |          | 63       | $\dashv$ | +        | $\dashv$ | _        | $\dashv$  | $\dashv$ | _        | $\dashv$        | _        |   |              | 113        | $\vdash$                               | Н              |                |  |  | П                | П        | r |
| <u> </u> | 14       | ╆            | -  | Н            | $\vdash$ | ┢        | $\vdash$                               |          | $\neg$       | ┪        | -        |          | 64       | $\top$   | $\top$   | $\top$   | $\top$   | +         | _        | 一        | _               |          |   |              | 114        | $\vdash$                               | H              |                | $\dashv$   |  | П                | П        | r |
| 4        | 15       | ┢            | <del>                                     </del> |              |          |          |  |          | $\Box$       | ┪        |          | 十        | 65       | 十        | $\top$   | +        | $\top$   | 7         | 寸        | T        | _               |          |   |              | 115        | T                                      |                |                |  |  | П                |          | r |
|          | 16       | †            | †  |              |          |          |  |          |              | ╗        |          |          | 66       | 1        | 十        | _        | 十        | ┪         | 一        | 一        | _               | 一        |   |              | 116        |  |                |                |  |  | П                |          | Γ |
| 12       | 17       | 1            | †  |              |          |          |  |          | $\Box$       | $\neg$   |          |          | 67       |          | _        | $\top$   | T        | ┪         | ┪        | 7        |                 |          |   |              | 117        |  |                |                |  |  |                  |          | Γ |
|          | 18       | $\vdash$     | İΤ   |              |          |          |  |          |              | $\neg$   |          | T        | 68       | T        | 1        | $\neg$   | 7        | 1         | ╛        | 寸        | $\neg$          | $\neg$   |   |              | 118        |  |                |                |  |  | П                |          | Г |
| 13       | 19       | †            | $\vdash$   |              |          | t        |  |          |              |          |          | T        | 69       |          | 十        | T        | $\top$   | ┪         |          | $\neg$   |                 |          |   |              | 119        |  |                |                |  |  | П                |          | Γ |
|          | 20-      | 1            |  |              |          | f        |  |          |              | $\neg$   |          | 寸        | 70       |          |          |          | $\neg$   |           | 一        | 寸        |                 |          |   |              | 120        |  | Г              |                |  |  |                  |          | Γ |
| 6        | 21       | T            | Т  | Г            |          |          |  |          |              | ╗        |          |          | 71       | 1        |          | $\neg$   | $\neg$   | ╗         |          |          |                 |          |   |              | 121        |  |                |                |  |  |                  |          | Γ |
|          | -22      | †            |  |              |          |          |  |          |              |          |          |          | 72       |          |          | T        | T        |           |          |          |                 |          |   |              | 122        | Π                                      |                |                |  |  |                  |          | I |
| 14       | 23       | 1            |  |              |          |          |  |          |              |          |          |          | 73       |          |          |          |          |           |          | Ī        |                 |          |   |              | 123        |  |                |                |  |  |                  |          |   |
|          | -24      | T            |  |              |          | Π        |  | _        |              |          |          |          | 74       |          | Т        |          |          |           |          |          |                 |          |   |              | 124        |  |                |                |  |  |                  |          | L |
| 15       | 25       | Τ            |  |              | Г        |          |  |          | П            |          |          | T        | 75       |          |          |          |          |           |          | П        |                 |          |   |              | 125        |  |                |                |  |  |                  |          | Γ |
|          | -26      | 1            |  | П            | П        |          |  |          |              |          |          | $\neg$   | 76       |          |          |          |          |           |          |          |                 |          |   |              | 126        |  |                |                |  |  |                  |          | I |
| 16       | 27       |              | Π  | Г            |          |          |  |          |              |          |          |          | 77       |          |          |          |          |           |          |          |                 |          |   |              | 127        |  |                |                |  |  |                  |          | L |
|          | -28      |              |  |              |          |          |  |          |              |          |          |          | 78       |          |          |          |          |           |          |          |                 |          |   |              | 128        | _                                      | L              |                |  |  | Ш                | 乚        | L |
|          | 29       | -            |  |              |          |          |  |          |              |          |          |          | 79       |          | $\perp$  |          |          |           |          |          | ┙               |          |   |              | 129        | <u> </u>                               | ļ              |                |  | <u> </u>   | igspace          | <u> </u> | ļ |
| 20       | 30       |              |  | _            |          |          |  |          |              | $\Box$   |          |          | 80       |          | 4        | $\perp$  | _        | _         |          | _        | _               | _        |   |              | 130        | ┖                                      |                | <u> </u>       |  | ㄴ  | <u> </u>         | <u> </u> | ļ |
|          | 31       |              |  | <u> </u>     | L        |          |  | L        | Ш            |          | L        |          | 81       |          | _        | 4        |          | _         | _        | _        | _               | _        |   |              | 131        | ــــــــــــــــــــــــــــــــــــــ | <del> </del>   | _              | _  | <u> </u>   | ╙                | <u> </u> | ļ |
| 17       | 32       | ⊥            | L  | <u> </u>     | _        | L        |  | ┖        |              | _        | $\vdash$ |          | 82       |          | 4        | 4        | _        | _         | _        | _        | _               | _        |   | <u> </u>     | 132        | <u> </u>                               |                | <u> </u>       | _  | ╙  | <u> </u>         | <u> </u> | ļ |
|          | -33      | 1            | ┞  | _            |          | ┖        | ┖                                      |          | _            |          | <br>     |          | 83       |          | 4        | 4        | $\dashv$ | 4         | $\dashv$ | _        |                 |          |   |              | 133        | 1                                      | ┞              | <u> </u>       |  | ╙  | ₩                | ┢        | Ŧ |
| 5        | 34       | 1_           | 1  | <u> </u>     | <u> </u> | _        | _                                      | _        | <u> </u>     | _        | $\vdash$ | 4        | 84       |          | 4        | $\dashv$ | 4        | 4         |          | ļ        | _               | _        |   | <u> </u>     | 134        | +                                      | <del> </del> — | <u> </u>       | <u> </u>   | <del> </del>                                     | ⊢                |          | + |
| 18       | 35       | <u> </u>     | <b> </b>   | <u> </u>     | <u> </u> | ┞        | ┞                                      | <u> </u> | <b> </b>     | _        | ⊢        | _        | 85       |          |          | $\dashv$ | _        | _         | _        |          |                 | _        |   | <u> </u>     | 135        | $\vdash$                               | 1              | <del> </del> — | <u> </u>   | $\vdash$   | ₩                | $\vdash$ | + |
| 7        | 36       | 1            | $\vdash$   | ــ           | -        | ┞        | <del> </del>                           | <u> </u> |              |          | $\vdash$ |          | 86       | _ _      | +        | _        | -        | _         |          | _        | _               | _        |   | <b> </b>     | 136        | ╀-                                     | ╂              | <u> </u>       |  | $\vdash$   | $\vdash$         | ├        | + |
| =        | 37       | $\bot$       | ╄  | ₩            | ــــ     | ــــ     | 1_                                     | <u> </u> | _            |          | <u> </u> | 4        | 87       | +        | -        | $\dashv$ | $\dashv$ | _         | $\dashv$ | $\Box$   | $\dashv$        | _        |   |              | 137        | $\vdash$                               | ┼              | $\vdash$       | $\vdash$   | ⊢  | ⊢                |          | + |
| 8        | 38       | ╀            | _  | <u> </u>     | <u> </u> | $\vdash$ | -                                      | <u> </u> | L.           |          | $\vdash$ | _        | 88       |          | +        | $\dashv$ | $\dashv$ | 4         | _        | $\Box$   | $\dashv$        |          |   |              | 138        | +                                      | $\vdash$       |                | $\vdash$   | ⊢  | ₩                | ₩        | + |
| <u> </u> | 39       | ↓            | 1  | <u> </u>     | ļ        |          | ┺                                      | ⊢        | <b> </b>     |          | <u> </u> | 4        | 89       | -        | +        | $\dashv$ | -        | _         | $\dashv$ | $\vdash$ | $\vdash$        | _        |   |              | 139        |  | ₩              |                | ├─   | ⊢  | ┼-               | $\vdash$ | + |
| <u> </u> | 40       | +            | ┼  | ⊢            | ╄        | ╄        | $\vdash$                               | $\vdash$ | <del> </del> | $\dashv$ | -        | $\dashv$ | 90       | -        | +        | +        | $\dashv$ | $\dashv$  |          |          | $\vdash$        |          |   | <u> </u>     | 140        | +-                                     | $\vdash$       | $\vdash$       | -  | $\vdash$   | ┼                | ⊢        | + |
|          | 41       | +            | 1—   | ـــ          | ╀        | +        | 1                                      |          | H            | $\vdash$ | $\vdash$ | $\dashv$ | 91<br>92 | +        | +        | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ |          | $\vdash \vdash$ |          |   |              | 141        |  | ╁              | ⊢              | -  | ⊢  | +                | ₩        | + |
| -        | 42       |              | +  | ╄            | ╀        | ╁—       | $\vdash$                               | ├        | $\vdash$     |          | $\vdash$ | -        | 93       | +        | +        | $\dashv$ | +        | _         | -        |          |                 | _        |   |              | 143        |  | +              | $\vdash$       |  | ╁╌   | ╁                | $\vdash$ | + |
|          | 43       |              | +  | +            | ╀        | $\vdash$ | ╁                                      | ├-       | -            | -        | $\vdash$ | -        | 94       |          | +        | -+       | $\dashv$ | $\dashv$  | -        | $\vdash$ | $\vdash \vdash$ | _        |   | $\vdash$     | 144        |  | +              | ╁              | $\vdash$   | $\vdash$   | +                | ╁╌       | + |
|          | 44<br>45 | +-           | +  | <del> </del> | ╀        | ₩        | ╀                                      | ├        | $\vdash$     |          | -        | $\dashv$ | 95       |          | +        | +        | +        |           | -        |          | $\vdash \vdash$ | _        |   | <u> </u>     | 144        | ╁┈                                     | +              | ┼              | ├  | $\vdash$   | +                | ╁        | + |
| -        | 45       | +            | ╀  | ┼            | ╁        | ╀        | ╁                                      | $\vdash$ | ├-           | -        | -        |          | 96       |          | +        | -        | +        | -         | -        | $\vdash$ | $\vdash$        |          |   | _            | 146        |  | +              |                | ├  | $\vdash$   | +                | ╁        | + |
| -        | 46       | +-           | +  | ╁            | +-       | ╁        | +-                                     | 1        | ⊢            | $\dashv$ | -        |          | 97       | +        | +        | $\dashv$ | $\dashv$ | -         | Н        | Н        | $\vdash$        |          |   | <del> </del> | 147        | ╁                                      | +              | $\vdash$       | -  | $\vdash$   | $\vdash$         | $\vdash$ | + |
| -        | 47       |              | +  | ╀            | ╁        | +-       | +-                                     | 1        | $\vdash$     | $\dashv$ | $\vdash$ | $\dashv$ | 98       | +        | +        | -+       | -+       | -         | H        | H        | $\vdash$        | _        |   | -            | 148        |  | ╁              | $\vdash$       | $\vdash$   | <del>  -</del>                                   | <del>  -</del>   | 1        | + |
| -        | 49       |              | +  | $\vdash$     | +        | +        | +                                      | -        | $\vdash$     | $\dashv$ | $\vdash$ | $\dashv$ | 99       | +        | $\dashv$ | $\dashv$ |          | -         |          | Н        | $\vdash$        | _        |   | <b></b>      | 149        |  | ╁╌             | $\vdash$       |  | $\vdash$   | +                | +        | t |
| -        | 50       |              | +  | +-           | ╁╌       | +        | +-                                     | $\vdash$ | ┢            | $\dashv$ | -        | $\dashv$ | 100      | +        | +        | $\dashv$ | $\dashv$ | $\dashv$  |          | Н        | $\vdash$        |          |   | $\vdash$     | 150        |  | +              | $\vdash$       | <del>                                     </del> | <del>                                     </del> | +                | $\vdash$ | † |
| L        | 1 30     |              |  | 1            | <u> </u> |          | ــــــــــــــــــــــــــــــــــــــ |          |              | ш        | ᆫ        |          | 100      |          |          |          |          |           | لـــا    | ليا      | L               |          | • | L            | 1.55       |  |                |                |  |  |                  | ٠        | 1 |